

ABB BALDOR RELIANCE III

Customer information packet

EJPM3613T

5HP, 3430RPM, 3PH, 60HZ, 184JP, 3634M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184JP
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.400 A @ 208.0 V 5.600 A @ 460.0 V 11.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	K
Type	AC
Mech. spec.	36R059
Base	
Status	PRD/A
Elec. spec.	36WGR114
Layout	36LYR059
Eff. date	05-12-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-19-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.11 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3430 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP3441LUA											
CAT.NO.	EJPM3613T										
SPEC	36R059R114G1										
HP	5										
VOLTS	230/460										
AMPS	11.2/5.6										
RPM	3430										
FRAME	184JP		HZ	60				PH	3		
SF	1.15		CODE	J	DES	B		CLASS	F		
NEMA NOM. EFF	88.5		PF	94							
RATING	40C AMB-CONT										
CC	010A										
ENCL	TEFC		SER								
DE	6207		ODE	6205							
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
	50Hz 5HP 190/380V 14/7A								SF1.0		

AC Induction Motor Performance Data

Record # 41699

Typical performance - not guaranteed values

Winding: 36WGR114-R001		Type: 3634M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	7.74 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	12.4-11.2/5.6	Breakdown Torque	31.7 LB-FT
R.P.M.	3430	Pull-up Torque	19.9 LB-FT
Hz	60 Phase	Locked-rotor Torque	23.1 LB-FT
NEMA Design Code	B KVA Code	Starting Current	45.5 A
Service Factor (S.F.)	1.15	No-load Current	1.17 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	2.91 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	68°C
S.F. Amps		Temp. Rise @ S.F. Load	87°C

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	73	88	92	95	95	95	95
Efficiency	88.7	90.9	90.4	89.5	87.1	84.9	88.1
Speed	3559	3520	3478	3434	3383	3325	3403
Line amperes	1.84	2.97	4.28	5.56	7.1	8.76	6.48

ABB Motors and Mechanical Inc.

WINDING # 36WGR114

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3430 RPM 460 V 3634M

TORQUES (LB-FT): PO=31.7 PU=19.9 LR=23.1 LRA=45.5





